



THIRD SPACE
LEARNING

GCSE Exam Questions

Rotational Symmetry |
Geometry & Measure

GCSE Exam Questions: Rotational Symmetry

- 1) (a) State the order of rotational symmetry of the shape below.



(1)

- (b) Draw a three sided polygon with rotational symmetry order 1.

(1)
(2 marks)

- 2) (a) State the order of rotational symmetry of the shape below.



(1)

- (b) State the order of rotational symmetry of a square.

(1)
(2 marks)

GCSE Exam Questions: Rotational Symmetry

- 3) (a) James is exploring symmetry. He draws a regular hexagon.

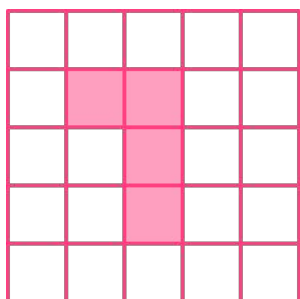
What is the order of rotational symmetry?

(1)

- (b) Calculate the sum of its interior angles.

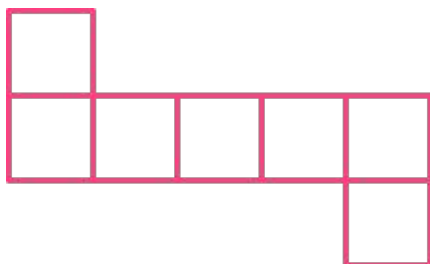
(2)
(3 marks)

- 4) (a) Shade one more square to make a pattern with rotational symmetry of order 2.



(1)

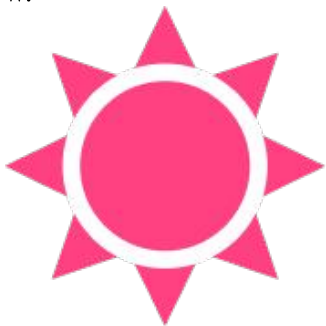

- (b) The shape below has rotational symmetry.



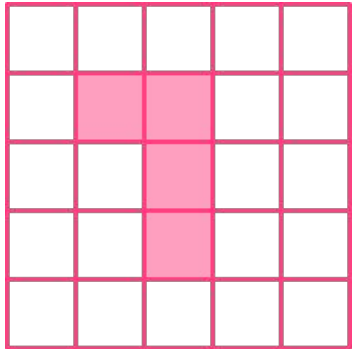
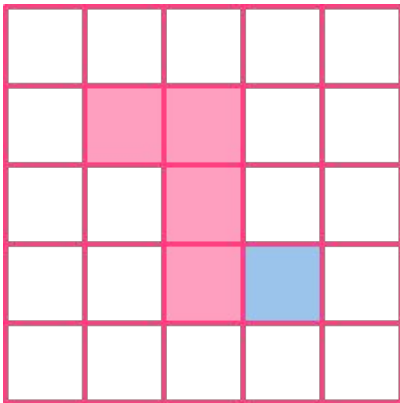
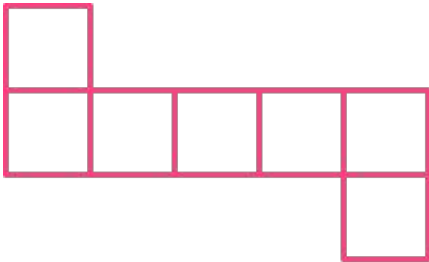
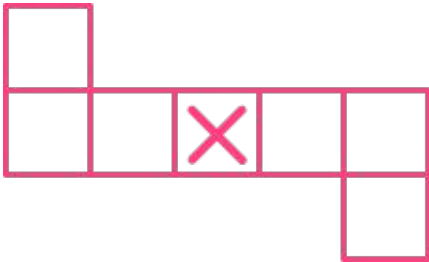
Mark with a cross (x) the centre of rotation.

(1)
(2 marks)

GCSE Exam Questions: Rotational Symmetry Answers

	Question	Answer	Marks
1) (a)	State the order of rotational symmetry of the shape below. 	(a) 8	(1)
(b)	Draw a three sided polygon with rotational symmetry order 1.	(b) Any correct shape drawn e.g. a scalene triangle.	(1)
2) (a)	State the order of rotational symmetry of the shape below. 	(a) 2	(1)
(b)	State the order of rotational symmetry of a square.	(b) 4	(1)
3) (a)	James is exploring symmetry. He draws a regular hexagon. What is the order of rotational symmetry?	(a) 6	(1)
(b)	Calculate the sum of its interior angles.	(b) $(6 - 2) \times 180$ 720°	(1)

GCSE Exam Questions: Rotational Symmetry Answers

	Question	Answer	Marks
4) (a)	Shade one more square to make a pattern with rotational symmetry of order 2. 	(a) 	(1)
(b)	The shape below has rotational symmetry.  Mark with a cross (x) the centre of rotation.	(b) 	(1)

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